#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Brown, et al.
Appl. No.:	09/159,518
Filed:	September 24, 1998
For:	Novel Opioid Peptides for the Treatment of Pain

Commissioner of Patents and Trademarks Washington, D.C. 20231

Declaration by Joint Inventors (37 C.F.R. § 1.63) and on Behalf of Inventor Who Refuses to Sign or Cannot Be Reached (37 C.F.R. § 1.47(a)), Power of Attorney and Petition Under 37 C.F.R. § 1.47(a)

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the application identified above.

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I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 C.F.R. § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119, of any United States provisional applications or foreign application(s) for patent or inventor's certificate or of any PCT International Application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT International Application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application on which priority is claimed:

Page 1 of 8

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Application Serial No.	Country	Filing Date (Day/Month/Year)	Priority Claimed (Yes/No)
9403263.8	United Kingdom	21 February 1994	Yes
9408179.1	United Kingdom	25 April 1994	Yes
9401519-5	Sweden	3 May 1994	Yes
9502877-5	Sweden	18 August 1995	Yes
9503924-4	Sweden	7 November 1995	Yes

I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) or PCT International Application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56, which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

# Application Serial No.

#### Filing Date

PCT/SE95/00158 PCT/SE96/01011 08/392,918 08/718,585 15 February 1995 14 August 1996 March 3, 1995 October 2, 1996 Status (Patented, <u>Pending, Abandoned)</u>

Abandoned Abandoned Pending Pending

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I am signing this declaration on my own behalf and also under 37 C.F.R. § 1.47(a) on behalf of the joint inventor who refuses to sign or cannot be reached and for whom the following particulars are believed by me to be true:

Full name of inventor:John DiMaioLast known residence:12404 Pierre Blanchet<br/>Montreal, Quebec H1E 4L9, CanadaCitizenship: Canadian

Last known post office address:

12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by

Page 2 of 8

fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint Robert A. Armitage, Reg. No. 27,417; Steven R. Borgman, Reg. No. 33,160; W. Scott Brown, Reg. No. 32,968; Barry Bumgardner, Reg. No. 38,397; Andrew G. DiNovo, Reg. No. 40,115; G. Harvey Dunn III, Reg. No. 31,102; Barry E. Engel, Reg. No. 37,127; A.H. Evans, Reg. No. 22,032; Adam Floyd, Reg. No. 39,192; William L. LaFuze; Stuart J. Ford, Reg. No. 37,486; Reg. No. 27,205; J. Clark Martin, Reg. No. 26,198; Gerald D. Malpass, Jr., Reg. No. 40.079; Peter E. Mims, Reg. No. 32,429; Minh-Hien Nguyen, Reg. No. 37,294; Gregory L. Porter, Reg. No. 40,131; W. Ronald Robins, Reg. No. 26,222; Michael A. Sanzo, Reg. No. 36,912; Willem G. Schuurman, Reg. No. 29,998; David B. Weaver, Reg. No. 43,244; and Karen Tucker White, Reg. No. 34,267, all registered to practice before the Patent and Trademark Office as my attorneys with full power of substitution and revocation to prosecute this application and all divisions and continuations thereof and to transact all business in the Patent and Trademark Office connected therewith and request that all correspondence and telephone communications be directed to the following person(s) at the mailing address and telephone number hereafter given:

Name

Michael A. Sanzo

36,912

Registration No.

Address

Vinson & Elkins 2300 First City Tower

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and the first second

1001 Fannin Houston, TX 77002-6760

Telephone No. : (202) 639-6585

I hereby petition that this declaration be accepted on my behalf and on behalf of the inventor who refuses to sign or cannot be reached, in accordance with 37 C.F.R. § 1.47(a).

Accompanying this declaration and petition are:

- 1. The petition fee of \$130.00 (37 C.F.R. § 1.17(i)) in accordance with the requirements of 37 C.F.R. § 1.47(a); and
- 2. Declaration(s) of pertinent facts in support of filing on behalf of an inventor who refuses to sign or cannot be reached.

Page 3 of 8

#### Signature of Inventor William Brown

Date

Residence: 756 Pierre Street Ste-Dorothée, Laval, Quebec H7X 3L8, Canada Citizenship: Canadian

Post Office Address: 756 Pierre Street Ste-Dorothée, Laval, Quebec H7X 3L8, Canada

Signature of Inventor John DiMaio

Date

Residence: 12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada Citizenship: Canadian

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# Post Office Address: 12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada

Signature of Inventor Peter Schiller

Date

Residence: 3475 Mountain Street, App. 1212 Montreal, Quebec H3G 2A4, Canada Citizenship: Canada and Switzerland

Post Office Address: 3475 Mountain Street, App. 1212 Montreal, Quebec H3G 2A4, Canada

Page 4 of 8

Signature of I	nventor R	ené Martel	Date	
Last Residence	-	150, Cote Vertu, Ap	• • • • • • • • • • • • • • • • • • •	-
		aint Laurent, Quebe	: H4L 1Y5, Canada	
Last Citizensl	up: C	anada		
Last Post Off	ce Addres	s: 1150, Cote Ve	rtu. App. 301	
		Saint Laurent,	Quebec H4L 1Y5, Canada	
		Saint Laurent,	Quebec H4L 1Y5, Canada	
		Saint Laurent,	Quebec H4L 1Y5, Canada	
		Saint Laurent,	Quebec H4L 1Y5, Canada	
		Saint Laurent,	Quebec H4L 1Y5, Canada	
·		Saint Laurent,	Quebec H4L 1Y5, Canada	
Signature of I				
Signature of I	nventor W		Quebec H4L 1Y5, Canada Date	
Signature of I Residence:	nventor W 2297 Fre	'uyi Wang		
	2297 Fre	'uyi Wang	Date	



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Post Office Address: 2297 Frenette St-Laurent, Quebec H4R 1M3, Canada

Page 5 of 8

# **Co-Executors of Estate of Deceased Inventor René Martel**

I hereby declare that my residence and citizenship are as stated below next to my name and that I am executing and signing this Declaration as co-executor of the estate of:

Full name of deceased inventor: René Martel

Country of citizenship of deceased inventor: Canada

Last residence of deceased inventor: 1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada

Last post office address of deceased inventor: 1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada

Upon information and belief, I aver those facts which the inventor is required to state and which are set forth in the accompanying Declaration.

I also hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Signature of co-executor Francis Martel

3-05-

Date

Residence: 29A Rang St-André St-Philippe, Québec Canada J0L 2K0

Citizenship: Canadian

Page 6 of 8

• 1

Signature of co-executor Diane Martel

Residence: 760 Marie LeBer, Apt. 108 Ile des Soeurs, Québec Canada H3E 1W6

Citizenship:

: Canadian

Signature of co-executor Pierre Martel

Residence: 109 Maitland Pointe-Claire, Québec Canada H9R 3X5

17 Mills 1994

Date

Date

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# Citizenship: Canadian

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Page 7 of 8

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Brown, et al.
Appl. No.:	09/159,518
Filed:	September 24, 1998
For:	Novel Opioid Peptides for the Treatment of Pain

Commissioner of Patents and Trademarks Washington, D.C. 20231

> Declaration by Joint Inventors (37 C.F.R. § 1.63) and on Behalf of Inventor Who Refuses to Sign or Cannot Be Reached (37 C.F.R. § 1.47(a)), Power of Attorney and Petition Under 37 C.F.R. § 1.47(a)

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the application identified above.

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I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

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Page 1 of 8

Application	Country	Filing Date	Priority Claimed
Serial No.		(Day/Month/Year)	(Yes/No)
9403263.8 9408179.1 9401519-5 9502877-5 9503924-4	United Kingdom United Kingdom Sweden Sweden Sweden	21 February 1994 25 April 1994 3 May 1994 18 August 1995 7 November 1995	Yes Yes Yes Yes

I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) or PCT International Application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56, which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

# Application

Application Serial No.	Filing Date	Status (Patented, <u>Pending, Abandoned)</u>
PCT/SE95/00158 PCT/SE96/01011	15 February 1995	Abandoned
	14 August 1996	Abandoned
08/392,918	March 3, 1995	Pending
08/718,585	October 2, 1996	Pending

and the second 21-17 17-17 17-17 

I am signing this declaration on my own behalf and also under 37 C.F.R. § 1.47(a) on behalf of the joint inventor who refuses to sign or cannot be reached and for whom the following particulars are believed by me to be true:

Full name of inventor: John DiMaio

Last known residence: 12404 Pierre Blanchet Citizenship: Canadian Montreal, Quebec H1E 4L9, Canada

Last known post office address:

.

12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by

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Name

Michael A. Sanzo

Registration No. : 36,912

Address

: Vinson & Elkins 2300 First City Tower

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1001 Fannin Houston, TX 77002-6760

Telephone No. : (202) 639-6585

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Page 3 of 8

#### Signature of Inventor William Brown

Date

Residence: 756 Pierre Street Ste-Dorothée, Laval, Quebec H7X 3L8, Canada Citizenship: Canadian

Post Office Address: 756 Pierre Street Ste-Dorothée, Laval, Quebec H7X 3L8, Canada

Signature of Inventor John DiMaio

Date

Residence: 12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada Citizenship: Canadian

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Post Office Address: 12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada

Signature of Inventor Peter Schiller

#### Date

Residence: 3475 Mountain Street, App. 1212 Montreal, Quebec H3G 2A4, Canada Citizenship: Canada and Switzerland

Post Office Address: 3475 Mountain Street, App. 1212 Montreal, Quebec H3G 2A4, Canada

Page 4 of 8

<u>Deceased - See a</u> Signature of Inv		<u>natures of co-executors</u> Martel		Date
Last Residence:	,	Cote Vertu, App. 301 Laurent, Quebec H4L	1 <b>V5</b> Co	mada
Last Citizenship			11 <b>3</b> , Ca	allaua
Last Post Office	Address:	1150, Cote Vertu, Ap Saint Laurent, Quebe	• •	1Y5, Canada
Signature of Inv	entor Wuyi	Wang	Date	
	297 Frenette t-Laurent. (	e Juebec H4R 1M3, Cana	ada	
	Canada			

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Post Office Address: 2297 Frenette St-Laurent, Quebec H4R 1M3, Canada

Page 5 of 8

#### **Co-Executors of Estate of Deceased Inventor René Martel**

I hereby declare that my residence and citizenship are as stated below next to my name and that I am executing and signing this Declaration as co-executor of the estate of:

Full name of deceased inventor: René Martel

Country of citizenship of deceased inventor: Canada

Last residence of deceased inventor: 1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada

Last post office address of deceased inventor: 1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada

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Signature of co-executor Francis Martel

Date

Residence: 29A Rang St-André St-Philippe, Québec Canada JOL 2K0

Citizenship: Canadian

Page 6 of 8

M Signature of co-executor piane Martel Residence: 760 Marie LeBer, Apt. 108 Ile des Soeurs, Québec Canada H3E 1W6 Citizenship: Canadian Signature of co-executor Pierre Martel Residence: 109 Maitland Pointe-Claire, Québec

Canada H9R 3X5

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Date

Date

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### Citizenship: Canadian

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Page 7 of 8

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Appl. No.:	09/159,518
Filed:	September 24, 1998
For:	Novel Opioid Peptides for the Treatment of Pain

Commissioner of Patents and Trademarks Washington, D.C. 20231

> Declaration by Joint Inventors (37 C.F.R. § 1.63) and on Behalf of Inventor Who Refuses to Sign or Cannot Be Reached (37 C.F.R. § 1.47(a)), Power of Attorney and Petition Under 37 C.F.R. § 1.47(a)

As a below-named inventor, I hereby declare that:

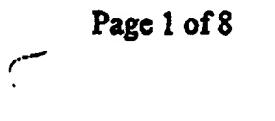
My residence, post office address and citizenship are as stated below next to my name, and

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the application identified above.

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	Filing Date	Priority Claimed
Country	(Day/Month/Year)	(Yes/No)
United Kingdom	21 February 1994	Yes
United Kingdom	25 April 1994	Yes
Sweden	3 May 1994	Yes
Sweden	18 August 1995	Yes-
Sweden	7 November 1995	Yes
	United Kingdom United Kingdom Sweden Sweden	Country(Day/Month/Year)United Kingdom21 February 1994United Kingdom25 April 1994Sweden3 May 1994Sweden18 August 1995

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#### Application Serial No.

#### Filing Date

PCT/SE95/00158 PCT/SE96/01011 08/392,918 08/718,585 15 February 1995 14 August 1996 March 3, 1995 October 2, 1996 Status (Patented, Pending, Abandoned)

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Full name of inventor: John DiMaio

Last known residence: 12404 Pierre Blanchet Cit Montreal, Quebec H1E 4L9, Canada

Citizenship: Canadian

Last known post office address:

12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by

Page 2 of 8

514 978 7994 PAGE.003

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I hereby appoint Robert A. Armitage, Reg. No. 27,417; Steven R. Borgman, Reg. No. 33,160; W. Scott Brown, Reg. No. 32,968; Barry Bumgardner, Reg. No. 38,397; Andrew G. DiNovo, Reg. No. 40,115; G. Harvey Dunn III, Reg. No. 31,102; Barry E. Engel, Reg. No. 37,127; A.H. Evans, Reg. No. 22,032; Adam Floyd, Reg. No. 39,192; William L. LaFuze; Stuart J. Ford, Reg. No. 37,486; Reg. No. 27,205; J. Clark Martin, Reg. No. 26,198; Gerald D. Malpass, Jr., Reg. No. 40.079; Peter E. Mims, Reg. No. 32,429; Minh-Hien Nguyen, Reg. No. 37,294; Gregory L. Porter, Reg. No. 40,131; W. Ronald Robins, Reg. No. 26,222; Michael A. Sanzo, Reg. No. 36,912; Willem G. Schuurman, Reg. No. 29,998; David B. Weaver, Reg. No. 43,244; and Karen Tucker White, Reg. No. 34,267, all registered to practice before the Patent and Trademark Office as my attorneys with full power of substitution and revocation to prosecute this application and all divisions and continuations thereof and to transact all business in the Patent and Trademark Office connected therewith and request that all correspondence and telephone communications be directed to the following person(s) at the mailing address and telephone number hereafter given:

Name

Michael A. Sanzo

36,912

Registration No.

Address

Vinson & Elkins 2300 First City Tower

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1001 Fannin Houston, TX 77002-6760

Telephone No.

: (202) 639-6585

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- 2. Declaration(s) of pertinent facts in support of filing on behalf of an inventor who refuses to sign or cannot be reached.

Page 3 of 8

514 978 7994 PAGE.004

Signature of Inventor William Brown

<u>Hune 1199</u> Date

1999

Residence: 756 Pierre Street Ste-Dorothée, Laval, Quebec H7X 3L8, Canada Citizenship: Canadian

Post Office Address: 756 Pierre Street Ste-Dorothée, Laval, Quebec H7X 3L8, Canada

Signature of Inventor John DiMaio

Date

Residence: 12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada Citizenship: Canadian

North Marth Wards with

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Post Office Address: 12404 Pierre Blanchet Montreal, Quebec H1E 4L9, Canada

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Signature of Inventor Peter Schiller

June 1, Date

Residence: 3475 Mountain Street, App. 1212 Montreal, Quebec H3G 2A4, Canada Citizenship: Canada and Switzerland

Post Office Address: 3475 Mountain Street, App. 1212 Montreal, Quebec H3G 2A4, Canada

Page 4 of 8

514 978 7994 PAGE.005

Deceased - See attached signatures of co-executors Signature of Inventor René Martel

Date

Last Residence: 1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada Last Citizenship: Canada

Last Post Office Address:

1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada

Signature of Inventor Wuyi Wang

June 1 1999 Date

Residence: 2297 Frenette St-Laurent, Quebec H4R 1M3, Canada Citizenship: Canada

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Post Office Address: 2297 Frenette St-Laurent, Quebec H4R 1M3, Canada

Page 5 of 8

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**Theory** 

Brown, et al. Atty. Dkt. No. ABA300/13004

#### Co-Executors of Estate of Deceased Inventor René Martel

I hereby declare that my residence and citizenship are as stated below next to my name and that I am executing and signing this Declaration as co-executor of the estate of:

Full name of deceased inventor: René Martel

Country of citizenship of deceased inventor: Canada

Last residence of deceased inventor: 1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada

Last post office address of deceased inventor: 1150, Cote Vertu, App. 301 Saint Laurent, Quebec H4L 1Y5, Canada

Upon information and belief, I aver those facts which the inventor is required to state and which are set forth in the accompanying Declaration.

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**.** 

Signature of co-executor Francis Martel

Date

Residence: 29A Rang St-André St-Philippe, Québec Canada JOL 2K0

Citizenship: Canadian

Page 6 of 8

514 978 7994 PAGE.007

Signature of co-executor Diane Martel
---------------------------------------

Residence: 760 Marie LeBer, Apt. 108 Ile des Soeurs, Québec Canada H3E 1W6

Citizenship:

p: Canadian

Signature of co-executor Pierre Martel

Residence: 109 Maitland Pointe-Claire, Québec Canada H9R 3X5

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Date

Date

# Citizenship: Canadian

Page 7 of 8

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#### PATENT/Docket No.: ABA300/58000

#### ASSIGNMENT TO ASTRA AB

Title:NOVEL OPIOID PEPTIDES FOR THE TREATMENT OF PAIN AND USE THEREOFInventors:William Brown, John DiMaio, Peter Schiller and René MartelSerial No.:Filing Date:Execution Date of Application:Filing Country:

As a below-named inventor, I hereby declare that:

My post office address is as stated below under my signature and I am named as inventor of the inventions or discoveries (herein INVENTIONS) as described in the patent application (herein APPLICATION) identified above. In view of valuable consideration, receipt thereof is hereby acknowledged, I do hereby assign and transfer unto ASTRA AB, a corporation of Sweden having a place of business at Södertälje, its successors and assigns, my entire interest in and the full and exclusive right to the INVENTIONS, the APPLICATION and all related applications (including all divisions, reissues, continuations, and extensions thereof) and all counterparts in other countries, and any and all Letters Patent (and certificates of invention or similar certificates) (herein PATENTS) which may be granted based upon the INVENTIONS or the APPLICATION or related applications or counterparts in other countries; said transfer and assignment being applicable throughout the world. I hereby authorize and request officials of patent offices in any and all countries of the world to issue any and all of the PATENTS, when granted, to ASTRA AB, its successors and assigns, as the assignee of my entire right, title, and interest in and to the same. I agree that I will communicate to ASTRA AB, or its representatives, any facts known to me respecting the invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of the PATENTS to be issued to ASTRA AB; make all rightful oaths; and generally do everything possible to aid ASTRA AB, its successors and assigns, to obtain and enforce proper protection for the INVENTION in any and all countries throughout the world.

FULL NAME OF FIRST/SOLE INVENTOR: William Brown Signature of Inventor:

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Address: 756 St-Pierre Street, Ste-Dorothée, Laval, Quebec H7X 3L8, Canada

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FULL NAME OF SECOND/JOINT INVENTOR: John DiMaio
Signature of Inventor:
Address: 12404 Pierre Blanchet, Montreal, Quebec H1E 4L9, Canada
Date: Tehring 8/95-

V&E60.AST 5/94

Page 1

# PATENT/Docket No.: ABA300/58000

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FULL NAME OF THIRD/JOINT INVENTOR: Peter Schiller	
Signature of Inventor:	
Address: 3475 Mountain Street, App. 1212, Montreal, Quebec H3G 2A4, Canada	
Date: February 8 1995	

FULL NAME OF FOURTH/JOINT INVENTOR: René Martel
Signature of Inventor:
Address: 1150, Cote Vertu, Saint Laurent, Quebec H4L 1Y5, Canada Date: <u>Feb 8/1995</u>

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# List of Applications on Which the Name of the Assignee Should Be Changed to AstraZeneca AB

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# List of Patents on Which the Name of the Assignee Should Be Changed to AstraZeneca AB

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